

Missouri Department of Natural Resources



PUBLIC NOTICE

APPLICATION FOR MISSOURI STATE OPERATING PERMIT

DATE: November 5, 2004

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, ATTN: Gary L. Gaines, P.E., Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by December 5, 2004 or received in our office by 5:00 p.m. on December 8, 2004. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.state.mo.gov/wpscd/wpcp/wpcp-pn.htm>, or at the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: November 5, 2004
Permit Number: MO-0130842
Southeast Regional Office

| FACILITY NAME AND ADDRESS | NAME AND ADDRESS OF OWNER |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Doe Run Water Treatment Plant 2752 Wycliff Drive Farmington, MO 63640 | Pilot Knob Rural Water Supply District #1 P.O. Box 160 Pilot Knob, MO 63663 |
| RECEIVING STREAM & LEGAL DESCRIPTION | TYPE OF DISCHARGE |
| St. Francois River SE ¼, NW ¼, Sec. 13, T35N, R5E, St. Francois County | Water Treatment Plant, new |

Plans and specifications for this facility have been reviewed by the Department of Natural Resources. The design engineer, a registered Missouri professional engineer, has certified that the plans and specifications meet all requirements of 10 CSR 20-Chapter 8 Waste Treatment Design.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0130842

Owner: Pilot Knob Rural Water Supply District No.1
Address: P.O. Box 160, Pilot Knob, MO 63663

Continuing Authority: Same as above
Address: Same as above

Facility Name: Doe Run Water Treatment Plant
Facility Address: 2752 Wycliff Drive, Farmington, MO 63640

Legal Description: SE $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 13, T35N, R5E, St. Francois County
Latitude/Longitude: +3744230/-09025473

Receiving Stream: St. Francois River (P) 303(d)
First Classified Stream and ID: St. Francois River (P) (02835)
USGS Basin & Sub-watershed No.: (08020202-010003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - Water Treatment Plant - SIC #4941
Water from reverse osmosis water treatment plant.
Design flow is 24,480 gallons per day.
Average flow is 16,320 gallons per day.
Outfall location is at intersection of Hwy H and St. Francois River.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date
MO 780-0041 (10-93)

Gary L. Gaines, P.E., Director, Southeast Regional Office

| | | | | | PAGE NUMBER 2 of 4 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|----------------|-----------------|--------------------------|------------------------|
| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PERMIT NUMBER MO-0130842 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| (OUTFALL NUMBER AND EFFLUENT PARAMETERS) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT TYPE | SAMPLE FREQUENCY |
| <u>Outfall #001</u> | | | | | | |
| Flow | gpd | * | | * | once/quarter*** | 24 hr. estimate |
| pH | SU | ** | | ** | once/quarter*** | grab |
| Radium 226 + Radium 228 | pCi/L | * | | * | once/quarter*** | grab |
| Gross alpha particle activity | pCi/L | * | | * | once/quarter*** | grab |
| <u>Upstream monitoring point</u> <u>(100 yards upstream of</u> <u>Discharge)</u> | | | | | | |
| Flow | cfs | * | | * | once/quarter*** | instantaneous estimate |
| Radium 226 + Radium 228 | pCi/L | * | | * | once/quarter*** | grab |
| Gross alpha particle activity | pCi/L | * | | * | once/quarter*** | grab |
| <u>Downtown Monitoring Point</u> <u>(1/4 mile downstream of</u> <u>discharge)</u> | | | | | | |
| Flow | cfs | * | | * | once/quarter*** | instantaneous estimate |
| Radium 226 + Radium 228 | pCi/L | 5 | | | once/quarter*** | grab |
| Gross alpha particle activity | pCi/L | 15 | | | once/quarter*** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & II</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- *** Sample once per quarter in the months of January, April, July, and October.

C. SPECIAL CONDITIONS

1. All outfalls must be clearly marked in the field.
2. Report as no-discharge when a discharge does not occur during the report period.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

C. SPECIAL CONDITIONS (continued)

4. Industrial Sludge Use or Disposal

- a. This permit does not authorize land application or disposal of industrial sludge.
- b. Sludge Removal and Disposal Plan. In the event sludge builds up in the equalization basin, the permittee shall submit a proposed sludge use or disposal plan for department review and approval at least 180 days prior to planned removal of sludge. If the sludge will be land applied, a revised permit application must be submitted using permit application forms A, C, and R; (and D, where applicable). All land application sites must be public noticed and permitted prior to use.
- c. Closure Requirements. Prior to taking the treatment system out of service, a closure plan shall be submitted for department review and approval.

5. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

6. Changes in Discharges of Toxic Substances.

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
- (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

C. SPECIAL CONDITIONS (continued)

7. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C) and (D), 304(b) (2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.